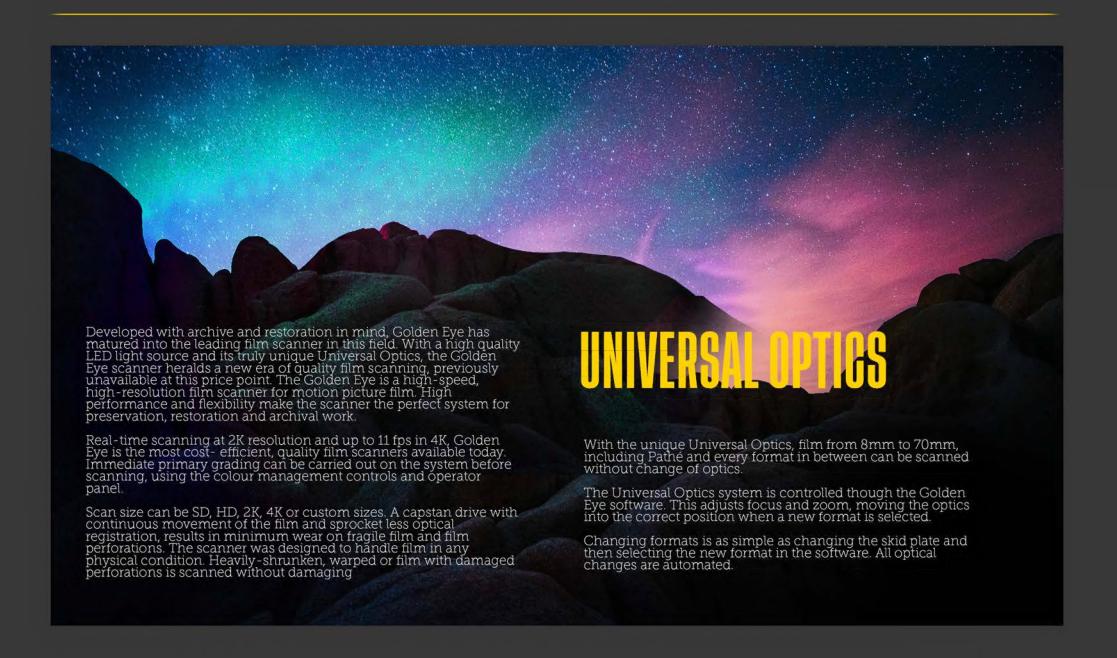


ELLING BENEFILLE SCANNER

THE WORLD'S MOST VERSATILE FILM SCANNER



BOOST PERFORMANCE WITH A DUAL CAMERA SOLUTION

The camera is at the heart of any scanner, so we gave it two.

To optimise performance, two cameras are used. The main camera captures the film's active area using a 4K tri-linear camera, enabling the sampling of all colours at full resolution, whilst an additional technical camera is used for optical frame registration and control of the film's transport speed and stability.

As an option, the additional carnera can also be used for decoding key code and scanning the optical sound track. Optical registration of perforations helps to stabilise the framing of the film.

AUDIO CAPTURE AT ANY SPEED

OPTICAL AUDIO

The input from the technical camera is used for decoding optical sound, stereo or mono, variable density or variable area, positive or negative. Golden Eye uses image processing for decoding, which allows for automatic adjustment for different densities inherent in old film bases and for automatic dust correction.

The sound track is automatically detected and the decoding algorithm follows the sound tracks throughout the scanning process. This means for example, that shrunken-film is scanned without problem. The decoding can be done at any scanning speed, up to real-time, which allows for slow-scanning of old and sensitive film.

As the decoding is carried out at the same time as the image recording with adjustable sound spacing, there are no synchronisation problems. The decoded sound is scanned into a WAV file and saved together with the scanned image files.

MAGNETIC AUDIO

track acquisition, known commonly as COMMAG. Whilst 16mm is often available on telecines and scanners, Golden Eye, in line with the commitment to service ALL formats found in film

archives, extends this to 8mm and uniquely 35mm AND 70mm 6 track films. Also, because of the large amount of "SEPMAG" tapes and the expense and difficulty of acquiring "sound followers", "SEPMAG" heads will soon be available to ensure that all film related magnetic audio types are catered for. Also uniquely, Golden Eye can acquire

these magnetic tracks in non-realtime. This enables the scanner to be set up for image quality and speed, independently of the the audio track's original recording speed (within certain

Similar to the optical track output, COMMAG outputs to a .WAV file for easy editing, processing



GOLDEN EYE AND LOKI... THE POSSIBILITIES ARE ENDLESS

Golden Eye, working alongside Digital Vision's Loki automated image processing engine make film restoration and image enhancement tools available to correct and restore scanned data.

Loki provides access to DVO. Digital Vision's suite of image processing algorithms. This industry standard toolset supports archival requirements such as format conversion, noise reduction, comprehensive film restoration and much more.

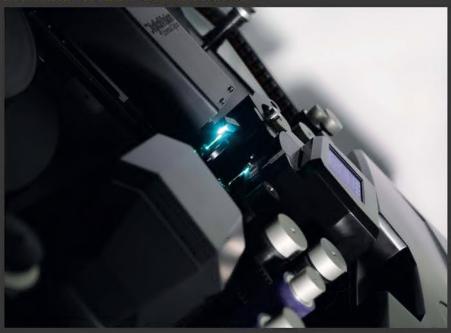
With over 25 advanced tools for film restoration, image enhancement and format conversion, the possibilities are limitless.

Loki now unleashes this unique and unparalleled toolset into a fully configurable and automated workflow to support archival work.

Ask sales@digitalvision.world for more information

LOKI

AUTOMATED CONVERSION AND RESTORATION



TECHNICAL SPECIFICATIONS

HARDWARE

Scanner Sensor

- 4K sensor with variable resolution
- Pixel size 10.56 x 10.56um
- True RGB: All colours sampled at full
- Standard SMPTE and SMPTE + gates (8mm,16mm, 35mm, 65mm, 70mm)
- Pathe gates (9.5mm, 17.5mm, 22mm

Universal Optics

- · Single lens, motor driven, multi axis, optical system for precision image sizing,
- Scan 8mm to 70mm without changing optics

Main Camera & Technical Camera

- · Main Camera: 4K Tri-linear
- · Three channels Red. Green. Blue
- · Technical Camera: 4K sensor Illumination
- RGB high power LED
- HDR mode
- Hybrid integrating cylinder with compressed air Film length
- Max reel size 2000 feet, Normal / reverse wind
- Variable winding speed up to 4m/s (200fps). with degraded image

Film Types

- Colour print and negative, B/W print and negative, intermediate, reversal Local control
- · Touch screen with basic control functions, stop, rewind and untense film

Magnetic Audio (Option)

- COMMAG audio heads for 8mm, 16mm, 35mm. 70mm and SEPMAG.
- · Real-time and non-realtime recording · Stereo,

Optical Audio

- COMOPT for 35mm and 16mm
- · Variable density, va riable area
- · Stereo, mono, positive and negative
- Auto-tracking

Colour Management

- · Automatic Dmin and Dmax calibration
- Automatic exposure control
- Film base correction
 Colour balance and levels control in low-lights, mid tones and highlights

Technical Monitoring

· Interactive RGB Waveform, Vectorscope and Histogram (RGB)

Technical Camera Processing

- · Sound decoding for positive and negative sound track
- Decoding of keycode
- Registration of pinholes for image stabilisation
- Splice detection

Output/Supported File Formats

- DPX SMPTE-268 2003 (10, 12, 16 bit log or linear)
 Mono DPX (10, 12, 16 bit)

- Quicktime, multiple Tiff
- (optional compression)

 MPEG, AVI, WMV and more video SDI/HD for preview (not suitable for
- recording)
 Apple ProRes
- · Image overlays (TC, KK or customised)

Image Acquisition

- Free format or fixed scan ratios (4:3) (16:9)

- User defined window
 Image rotation, flip and mirroring
 Image cache with preview Automatic scan from EDL and XML clip list

 The scan from EDL and XML clip list

 The scan from EDL and XML clip list

Mechanical Dimensions

- Foot print at 450 angle 100cm x72cm x 85cm
- (operating position)

 100cm x 80cm x 40cm
 (service position flat)
 Requires 30cm space around scanner to allow for air flow
- Portable device: ~ 90 kg

Power and Ancillary Requirements

- AC Power Supply: 110 240V / 50-60Hz
 Power Consumption: 500W
 (excluding workstation)
 Environmental Requirements: approx 200C and normal six humadity for 20oC and normal air humidity for
- office work (40 to 50%)

 Compressed air supply required 50 liter/min @ 3 bar

Installation & training, extended service and support available.

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